802.11 Wireless Network - Securing State IT Resources

Did you know?
The WEP security algorithm is **insecure** and **vulnerable** to **eavesdropping** and **traffic attacks.**

Did you know?
802.11 transmits data over unlicensed radio waves, which are easily identified and intercepted.

State 802.11 Wireless Network

- **Challenges** each user when attempting to access the network.
- If the user does not enter the credentials of an authorized user, s/he is **denied access.**
- If the user is authenticated, a **session encryption key is negotiated** and updated periodically during the session.
- A **protected tunnel** is set up for data communication.

User Wireless Devices
Client software required to authenticate users.

802.11 Access Point
Blocks access to the network until user is authenticated.

Once Authenticated
User has access to the State Network.

Access Switch

State Wide Area Network

Local Area Network

Authorization Database
*Is the user in the database?
Has the user entered the right credentials?*

Authentication Server
Attempt to connect as an authorized user?

Technology for a New Day

ITS Customer Driven Technology
Information Technology Services